

15-175-21826-0000

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

KCC

Form ACO-1
September 1999
Form Must Be Typed

JUN 19 2001

WELL COMPLETION FORM

ORIGINAL

WELL HISTORY - DESCRIPTION OF WELL & LEASE CONFIDENTIAL

Operator: License # 6120
Name: Cabot Oil & Gas Corporation
Address: 600-17th Street, Suite 900 North
City/State/Zip: Denver, CO 80202
Purchaser: WNG
Operator Contact Person: Linda Wilkins
Phone: (303) 226-9428
Contractor: Name: Val Energy Inc.
License: 5822
Wellsite Geologist: Wildcat Well Logging, Larry Looper

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

3/4/01 3/8/01 3/27/01
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 175-21826 - 0000
County: Seward
_____ C-NE Sec. 6 Twp. 33 S. R. 33 East West

3960 feet from (circle one) Line of Section
1250 feet from (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
Lease Name: Jerman Well #: 20-6

Field Name: Hugoton
Producing Formation: Chase Group

Elevation: Ground: 2843 Kelly Bushing: 2849
Total Depth: 2825 Plug Back Total Depth: 2764

Amount of Surface Pipe Set and Cemented at 769.67 Feet
Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 gr 9/8/02
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume 2000 bbls

Dewatering method used Evaporation and dry out
Location of fluid disposal if hauled offsite: _____

Operator Name: _____
Lease Name: _____ License No.: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

RECEIVED
KANSAS CORPORATION COMMISSION

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Linda D. Wilkins
Title: Operations Engineering Analyst Date: 6/19/01

Subscribed and sworn to before me this 19 day of June
2001

Notary Public: Mary D. Folvag

Date Commission Expires: 11-7-2002

MARY D. FOLVAG
NOTARY PUBLIC
STATE OF COLORADO

My Commission Expires 11/07/2002

KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 MUD LOG
 Geologist Report Received
 UIC Distribution

Operator Name: Cabot Oil & Gas Corporation Lease Name: Jerman Well #: 20-6
 Sec. 6 Twp. 33 S. R. 33 East West County: Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: Platform Express Microlog Gamma Ray ✓ Platform Express Array Induction Linear Correlation/GR ✓ Platform Express Compensated Neutron Lithodensity/GR ✓	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Herrington</td> <td>2554</td> <td>KB</td> </tr> <tr> <td>U. Krider</td> <td>2580</td> <td></td> </tr> <tr> <td>L. Krider</td> <td>2614</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2662</td> <td></td> </tr> <tr> <td>Ft. Riley</td> <td>2715</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Herrington	2554	KB	U. Krider	2580		L. Krider	2614		Winfield	2662		Ft. Riley	2715	
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
Name	Top	Datum																				
Herrington	2554	KB																				
U. Krider	2580																					
L. Krider	2614																					
Winfield	2662																					
Ft. Riley	2715																					

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacs Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#, J-55	769.67	35:65 Poz C	170	6% gel + 2% salt + 1/4#/sk Celloflake
					35:65 Poz C	150	2% salt + 1/4#/sk Celloflake
Production	7-7/8"	4-1/2"	10.5#, J-55	2807.60	35:65 Poz C	270	6% gel + 1/4#/sk Celloflake
					50:50 Poz C	180	10% salt + 2% gel + 1/4#/sk Celloflake

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2554-2571	Total Job: 14,700 gals 15% HCL +	
2 SPF	2617-2638	1,764 gals 2% KCL water	
2 SPF	2663-2684		

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-1/16"	2529.44	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
4/20/01			<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	185	0		.7637

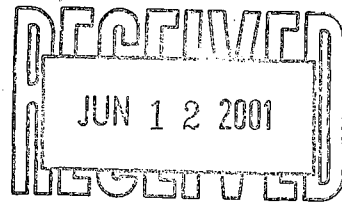
Disposition of Gas: Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: 2554'-2571' 2663'-2684'
2617'-2638'

Schlumberger

CONFIDENTIAL



KCC

Dowell a Division of Schlumberger Technology Corporation
 204 S Missouri
 Ulysses, KS 67880
 Tel: 316 356 1272
 Fax: 316 356 1911

JUN 19 2001

ORIGINAL

INVOICE

COPY

CONFIDENTIAL

Service Date 03/04/2001	Job Number 20205536	Invoice Date 03/14/2001	Invoice 9090611148
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Bill To: CABOT OIL & GAS PRODUCTION CORP DOMINION PLAZA 600 - 17TH STREET, SUITE 900 NORTH DENVER CO 80202	Remit To: Dowell a Division of Schlumberger Technology Corporation PO Box 201556 Houston TX 77216-1556
RELEASED JUL 19 2002	Tax Registration Number: 22-1692661 We can invoice you EDI. Call (281) 285 4230 for more information.

Terms 30 Days Net	Service Description DW Cementing-Case,Cement Surface
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Customer PO	Contract	AFE	Price Reference Dowell US
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Well JERMAN 20-6	State KS	County/Parish/Block Seward	Legal Location SEC:6 T:33S R:33W
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Field HUGOTON	Customer or Authorized Representative Jim Pendergrass	Rig
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Item	Description	Quantity	List Price	Disc	Net Price	Net Amount
48019000	Cement Bulk Unit hrs On Location	4.000 HR	100.00	-32.000 %	68.0000	272.00
48601000	Cement Head Rental	1.000 JOB	485.00	-32.000 %	329.8000	329.80
49100000	Service Chg Cement Matl Land All DW Fur	448.000 CF	2.10	-32.000 %	1.4280	639.74
49102000	Transportation Cement Ton Mile	1,376.000 MI	1.55	-32.000 %	1.0540	1,450.30
59200002	Mileage, All Other Equipment	110.000 MI	4.15	-32.000 %	2.8220	310.42
59697004	PRISM	1.000 JOB	810.00	-32.000 %	550.8000	550.80
102871020	Casing Cmmt 0000-2000' 1st 4hr	1.000 EA	1,870.00	-32.000 %	1,271.6000	1,271.60
Sub-Total Services						4,824.66
50001085	Shoe, Reg Pattern Guide 8 5/8 In	1.000 EA	366.00	-32.000 %	248.8800	248.88
56011085	Centralizer, Regular	5.000 EA	117.00	-32.000 %	79.5600	397.80
56702085	Plug, Cementing 8 5/8 In Top Plastic	1.000 EA	156.00	-32.000 %	106.0800	106.08
102946000	Fuel Surcharge	1.000 EA	106.43		106.4300	106.43
D020	Bentonite Extender D20	905.000 LB	0.23	-32.000 %	0.1564	141.54
D130	Polyester Flake D130	44.000 LB	3.93	-32.000 %	2.6724	117.59
D132	Extender, Cement D132	61.000 CF	5.97	-32.000 %	4.0596	247.64
D903	Cement, Class C D903	261.000 CF	14.55	-32.000 %	9.8940	2,582.33
S001	Calcium Chloride 77% S1	582.000 LB	0.59	-32.000 %	0.4012	233.50
Sub-Total Products						4,181.79
Total before tax						9,006.45
Tax, USState/CanGST 4.900 %						270.75
Tax, US City 1.000 %						55.27
Total Amount Due on or Before 04/13/2001 PAYABLE IN USD FUNDS						9,332.47

Please reference invoice number 9090611148 on payment.

Thank-you for calling Dowell

562793
9090611148

Schlumberger Technology Corporation
204 S Missouri
Ulysses, KS

KCC

JUN 19 2001

ORIGINAL

Job Number
20205536

Invoice Mailing Address: **CONFIDENTIAL**
CABOT OIL & GAS PRODUCTION CORP

600 - 17TH STREET, SUITE 900 NORTH
DENVER, CO
US

RELEASED

JUL 19 2002

FROM CONFIDENTIAL

ARRIVE LOCATION	Date	3/4/01	Time	3:30:00 PM
JOB START	Date	3/4/01	Time	6:46:00 PM
JOB COMPLETION	Date	3/4/01	Time	7:33:00 PM
LEAVE LOCATION	Date	3/4/01	Time	8:30:00 PM

Service Instructions
Cement 8 5/8" surface with 170 sks 35:65 POZ:Class C for a lead and 150 sks Class for tail
Bring 100 sks C with 2% for topout

Service Description
Cementing - Cem Surface Casing

Customer PO: 0 Contract: 0

AFE: 0 Rig: Val Energy Rig 1

Well: Jerman 20-6 State/Province: Kansas

County/Parish/Block: Legal Location:

Field:

Customer or Authorized Representative: Jim Pendergrass

Item	Description	Quantity	Unit	Unit Price	Amount
Services					
102871020	Casing Cmnt 0000-2000' 1st 4hr	1	EA	1,870.00	1,870.00
48019000	Cement Bulk Unit hrs On Location	4	HR	100.00	400.00
48601000	Cement Head Rental	1	JOB	485.00	485.00
49100000	Service Chg Cement Matl Land All DW Fur	448	CF	2.10	730.80
49102000	Transportation Cement Ton Mile	1374	MI	1.55	1,723.60
59200002	Mileage, All Other Equipment	110	MI	4.15	456.50
59697004	PRISM	1	JOB	810.00	810.00
Services Subtotal:					6,475.90

Products					
50001085	Shoe, Reg Pattern Guide 8 5/8 In	1	EA	366.00	366.00
56011085	Centralizer, Regular	5	EA	117.00	585.00
56702085	Plug, Cementing 8 5/8 In Top Plastic	1	EA	156.00	156.00
D020	Bentonite Extender D20	905	LB	0.23	208.15
D130	Polyester Flake D130	44	LB	3.93	172.92
D132	Extender, Cement D132	61	CF	5.97	364.17
D903	Cement, Class C D903	261	CF	14.55	3,797.55
S001	Calcium Chloride 77% S1	582	LB	0.59	343.38
Products Subtotal:					6,993.17

Subtotal (Before Discount): 12,469.07
 Discount: 3,990.10
 Special Discount: 0.00
 Estimated Total (USD): 8,478.97

The estimated charges above are subject to correction by Dowell.

Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner

Signature of Customer or Authorized Representative: *Jim Pendergrass* Jim Pendergrass

Signature of Dowell Representative: *Shubhanan Dakshindas* Shubhanan Dakshindas

Thank you for Calling Dowell!

9006.45

Schlumberger

CONFIDENTIAL

KCC Service Authorization

04-Mar-01

Schlumberger Technology Corporation
204 S Missouri
Ulysses, KS

JUN 19 2001

CONFIDENTIAL

ORIGINAL

Job Number
20205536

Invoice Mailing Address: CABOT OIL & GAS PRODUCTION CORP 600 - 17TH STREET, SUITE 900 NORTH DENVER, CO US		RELEASED JUL 19 2002 FROM CONFIDENTIAL		ARRIVE LOCATION		Date 3/4/01	Time 3:30:00 PM
Service Instructions Cement 8 5/8" surface with 170 sks 35:65 POZ:Class C for a lead and 150 sks Class for tail Bring 100 sks C with 2% for topout				Service Description Cementing - Cem Surface Casing			
Customer PO 0	Contract 0	AFE 0	Rig Val Energy Rig 1				
Well Jerman 20-6		State/Province Kansas		County/Parish/Block		Legal Location	
Field				Customer or Authorized Representative Jim Pendergrass			

THIS IS A CONTRACT. PLEASE READ CAREFULLY. IN CONSIDERATION OF THE PRICES AND THE SERVICES, EQUIPMENT AND/OR PRODUCTS PROVIDED TO CUSTOMER HEREUNDER, CUSTOMER AND SCHLUMBERGER AGREE TO BE BOUND BY THE TERMS AND CONDITIONS ATTACHED OR BY THE TERMS AND CONDITIONS OF A MASTER SERVICE AGREEMENT IF ONE IS IN FORCE BETWEEN CUSTOMER AND SCHLUMBERGER. THERE ARE, AMONG OTHER THINGS, INDEMNITY AND HOLD HARMLESS PROVISIONS AND WARRANTY EXCLUSIONS HEREIN.

Comments

Service Order: I authorize work to begin as set forth herein and represent that I have authority to accept and sign this order.

Signature of Customer or Authorized Representative

Jim Pendergrass
Jim Pendergrass

Signature of Dowell Representative

Shubhanan Dakshindas
Shubhanan Dakshindas

Thank you for Calling Dowell!

KCO Schlumberger
 JUN 19 2001
 CONFIDENTIAL

Cementing Service Report

ORIGINAL

CONFIDENTIAL

Customer: CABOT OIL & GAS PRODUCTION CORP					Job Number: 20205536						
Well: Jerman 20-6			Location (legal): Ulysses, KS			Dowell Location: Ulysses, KS			Job Start: 3/4/01		
Field:		Formation Name/Type:			Deviation: 0		Bit Size: 12.3 in		Well MD: 761 ft		
County:		State/Province: Kansas			BHP: 0 psi		BHST: 100 °F		BHCT: 80 °F		
Pore Press. Gradient: 0 psi/ft		Well TVD: 761 ft									
Rig Name: Val Energy Rig 1		Drilled For: Oil & Gas		Service Via: Land		Casing/Liner					
Offshore Zone: none		Well Class: New		Well Type: Development		Depth, ft: 761.11		Size, in: 8.63		Weight, lb/ft: 24	
						0		0		0	
Drilling Fluid Type: Spud Mud		Max. Density: 9.3 lb/gal		Plastic Viscosity: 0 cp		Tubing/Drill Pipe					
Service Line: Cementing		Job Type: Cem Surface Casing				Depth, ft: 0		Size, in: 0		Weight, lb/ft: 0	
Max. Allowed Tubing Pressure: 200 psi		Max. Allowed Ann. Pressure: 0 psi		Wellhead Connection: 8 5/8"		0		0		0	
Service Instructions:						Perforations/Open Hole					
Cement 8 5/8" surface with 170 sks 35:65 POZ:Class C for a lead and 150 sks Class for tail						Top, ft: 0		Bottom, ft: 0		sp/ No. of Shots: 0/0	
Bring 100 sks C with 2% for topout						0		0		0	
						0		0		0	
						Treat Down: Casing		Displacement: 46.5 bbl		Packer Type: None	
						Tubing Vol.: 0 bbl		Casing Vol.: 49.3 bbl		Annular Vol.: 55.8 bbl	
										Packer Depth: 0 ft	
										OpenHole Vol: 0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure: 312 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Guide		Squeeze Type:			
No. Centralizers: 5		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 750 ft		Tool Type:			
Cement Head Type: Single		Stage Tool Type: none		Stage Tool Depth: 0 ft				Tool Depth: 0 ft			
Job Scheduled For: 3/4/01 15:30		Arrived on Location: 3/4/01 15:30		Leave Location: 3/4/01 20:30		Collar Type: Auto-Fill		Tail Pipe Size: 0 in			
						Collar Depth: ft		Tail Pipe Depth: 0 ft			
								Sqz Total Vol: 0 bbl			
Time		CumVol		Density		Pressure U1		TotFlowrate		Message	
24 hr clock		bbl		ppg		psi		bpm			
18:46		0		0		0		0		START ACQUISITION	
18:46		0		0		0		0		Pressure Test Lines	
18:46		0.		7.98		0.		0.			
18:47		0.		7.98		0.		0.		RELEASED	
18:47		0.		7.98		0.		0.			
18:48		0.		7.98		0.		0.		JUL 19 2002	
18:48		0.132		8.		9.16		1.58			
18:49		0.311		8.01		27.47		1.64			
18:49		0.339		8.		892.9		0.		FROM CONFIDENTIAL	
18:50		0.339		8.		22.89		0.			
18:50		1.48		7.99		68.68		3.78			
18:51		1.48		7.99		68.68		3.78		Start Pumping Water	
18:51		3.85		7.99		77.84		4.7			
18:51		6.34		7.99		91.58		5.37			
18:52		8.97		7.99		82.42		5.09			
18:52		8.97		7.99		82.42		5.09		(CumVol)=10.17 bbl	
18:52		8.97		7.99		82.42		5.09		Reset Volume	
18:52		8.97		7.99		82.42		5.09		Start Cement Slurry	
18:52		0.489		11.03		82.42		5.83			
18:52		0.489		11.03		82.42		5.83		Reset NRD Volume	
18:53		2.87		12.55		91.58		4.86			
18:53		5.59		12.52		91.58		4.96			

Well	Jerman #20-6			Field	Service Date		Customer	Job Number
							IT OIL & GAS PRODUCTION	20205536
Time	CurVel	Density	Pressure Ut	TotFlowrate			Message	
24 hr clock	bbl	ppg	psi	bpm				
18:54	8.26	12.15	123.6	5.29	0	0		KCCG
18:54	10.89	11.59	100.7	5.13	0	0		
18:55	13.18	11.35	68.68	4.4	0	0		JUN 19 2002
18:55	15.46	11.45	64.1	4.48	0	0		CONFIDENTIAL
18:56	17.7	11.44	64.1	4.5	0	0		
18:56	19.91	11.18	64.1	4.42	0	0		
18:57	22.16	11.31	59.52	4.4	0	0		
18:57	22.16	11.31	59.52	4.4	0	0		scales 11.6 ppg
18:57	24.39	11.34	59.52	4.56	0	0		CONFIDENTIAL
18:58	26.59	11.31	64.1	4.34	0	0		
18:58	28.93	11.2	64.1	4.66	0	0		
18:59	31.27	11.18	68.68	4.76	0	0		
18:59	33.65	11.18	68.68	4.78	0	0		
19:00	36.05	11.21	64.1	4.82	0	0		
19:00	38.39	11.24	64.1	4.72	0	0		
19:01	40.76	11.29	64.1	4.44	0	0		
19:01	43.1	11.32	68.68	5.05	0	0		
19:02	45.5	11.32	68.68	4.66	0	0		
19:02	47.75	11.32	64.1	4.36	0	0		
19:03	50.04	11.07	64.1	4.56	0	0		
19:03	52.38	10.63	73.26	4.8	0	0		
19:04	54.76	11.39	68.68	4.66	0	0		
19:04	57.1	11.87	77.84	4.62	0	0		
19:05	59.61	11.55	73.26	4.4	0	0		
19:05	61.95	11.49	68.68	4.68	0	0		
19:06	64.35	11.85	73.26	5.09	0	0		
19:06	67.	11.37	106.3	5.59	0	0		
19:07	69.6	11.38	96.15	4.76	0	0		
19:07	72.23	11.3	91.58	5.71	0	0		
19:08	74.99	11.26	96.15	5.43	0	0		
19:08	74.99	11.25	96.15	5.43	0	0		
19:08	77.85	12.26	109.9	5.31	0	0		
19:09	80.89	13.73	91.58	6.41	0	0		
19:09	83.33	14.54	109.9	4.78	0	0		
19:10	85.7	14.96	123.6	4.78	0	0		
19:10	88.07	14.25	106.3	4.86	0	0		
19:11	90.45	15.05	114.5	4.64	0	0		
19:11	92.8	14.71	109.9	4.88	0	0		
19:12	95.17	13.89	96.15	5.35	0	0		
19:12	97.68	14.45	106.3	4.92	0	0		
19:13	100.	14.89	109.9	4.44	0	0		
19:13	102.4	14.62	106.3	5.19	0	0		
19:14	104.5	13.14	100.7	3.56	0	0		
19:14	107.	13.34	96.15	4.38	0	0		
19:15	109.6	14.3	106.3	4.14	0	0		
19:15	112.1	14.55	106.3	4.92	0	0		
19:16	112.9	14.03	4.58	0.	0	0		
19:16	112.9	14.03	0.	0.	0	0		
19:17	113.1	10.65	0.	1.68	0	0		
19:17	113.3	9.57	-4.58	0.	0	0		
19:18	114.3	8.62	54.95	4.86	0	0		
19:18	116.8	8.05	50.37	5.01	0	0		
19:19	119.3	8.02	50.37	5.23	0	0		
19:19	121.8	9.05	50.37	4.9	0	0		

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Well		Field			Service Date	Customer	Job Number
Jerman #20-6						IT OIL & GAS PRODUCTION	20205536
Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbbl	ppg	psl	bpm			
19:20	124.4	9.04	50.37	5.31	0	0	0
19:20	127.1	8.02	50.37	5.37	0	0	0
19:21	129.8	8.02	50.37	5.37	0	0	0
19:21	132.4	8.21	50.37	5.03	0	0	0
19:21	132.4	8.21	50.37	5.03	0	0	0
19:22	132.4	8.21	50.37	5.03	0	0	0
19:22	134.8	8.17	50.37	4.72	0	0	0
19:22	137.	8.01	50.37	4.2	0	0	0
19:23	139.	8.01	50.37	3.6	0	0	0
19:23	140.6	8.02	50.37	2.96	0	0	0
19:24	142.2	8.02	77.84	3.86	0	0	0
19:24	144.3	8.03	105.3	4.36	0	0	0
19:25	146.6	8.01	119.	4.62	0	0	0
19:25	148.8	8.01	132.8	4.24	0	0	0
19:26	150.8	8.01	100.7	3.3	0	0	0
19:26	152.4	8.01	141.9	3.16	0	0	0
19:27	154.	8.01	160.3	3.	0	0	0
19:27	155.5	8.01	141.9	2.88	0	0	0
19:28	156.9	8.	160.3	2.82	0	0	0
19:28	158.3	8.	192.3	2.8	0	0	0
19:28	158.3	8.	192.3	2.8	0	0	0
19:29	160.	8.	196.9	3.24	0	0	0
19:29	161.6	8.	196.9	3.1	0	0	0
19:30	162.4	8.	783.	0.	0	0	0
19:30	162.4	8.	783.	0.	0	0	0
19:31	162.4	8.	783.	0.	0	0	0
19:31	162.4	8.	247.3	0.	0	0	0
19:32	162.4	8.	4.58	0.	0	0	0
19:32	162.4	8.	4.58	0.	0	0	0
19:32	162.4	8.	0.	0.	0	0	0
19:32	162.4	8.	0.	0.	0	0	0
19:33	162.4	8.	0.	0.	0	0	0
19:33	162.4	8.	0.	0.	0	0	0

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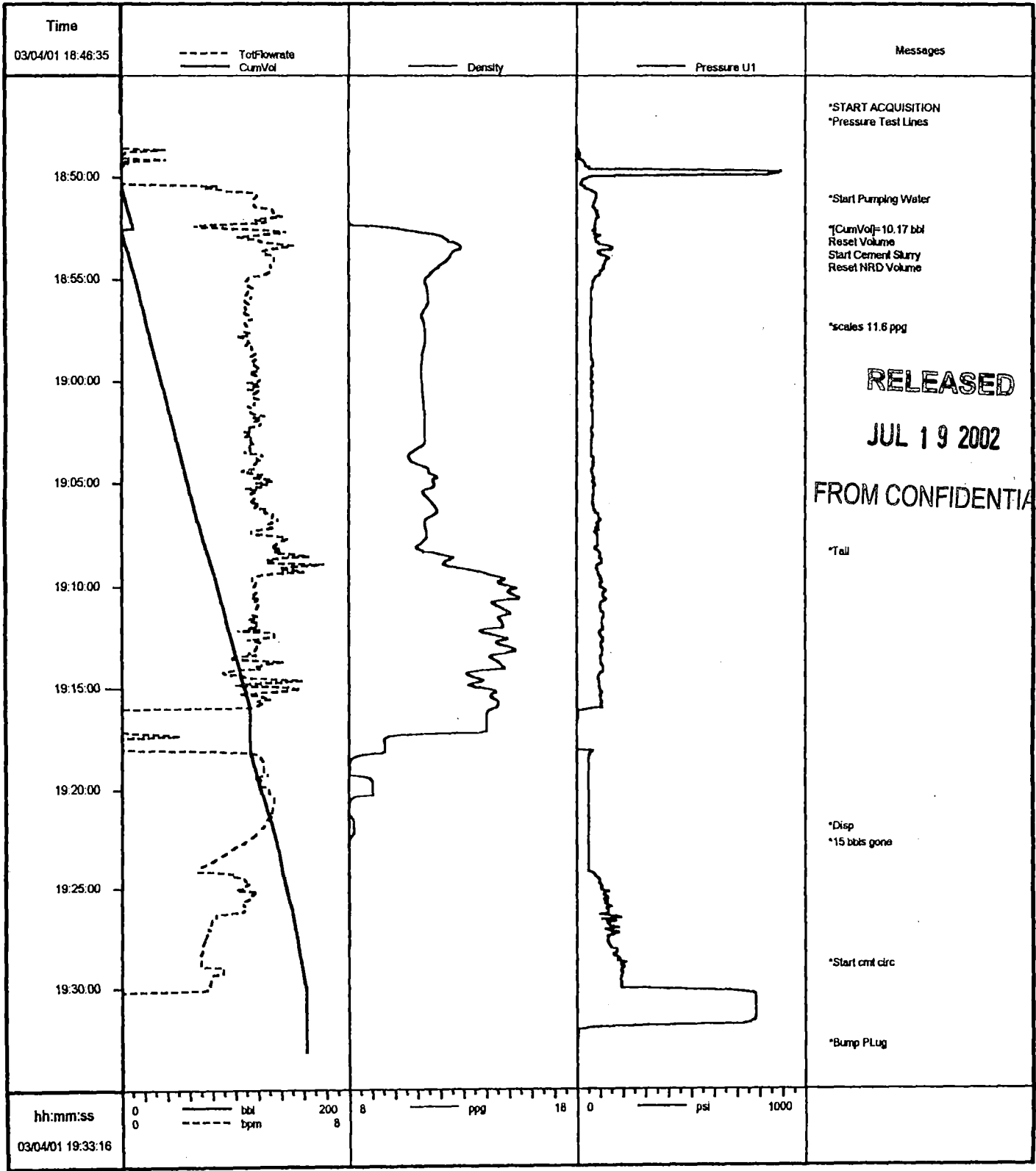
JUL 19 2002

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Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3	0	0	5	120	0	10	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1000	1000	0	800	0		0 bbl	0 lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	4 bbl	
0 %	119 bbl	47 bbl	85 °F	<input type="checkbox"/> Washed Thru Perfs	To	0 ft	
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Jim Pendergrass			Shubhanan Dakshindas				

Well Jerman 20-6	Client Cabot	KCC
Field Hugoton	SIR No. 20205536	JUN 19 2001
Country USA	Job Date 3/4/2001 6:46:35 PM	CONFIDENTIAL



Job: cabot

03/04/2001 19:34:43

* Mark of Schlumberger



Service Authorization

07-Mar-01

Schlumberger Technology Corporation
 204 S Missouri
 Ulysses, KS

Job Number
 20205689

Important- See other side for terms and conditions

Invoice Mailing Address: CABOT OIL & GAS PRODUCTION CORP 600 - 17TH STREET, SUITE 900 NORTH DENVER, CO US		ARRIVE LOCATION Date: 3/7/01 Time: 5:30:00 PM	
Service Instructions Cement 4 1/2 LS to surface with 270 sks lead cement and 180 sks tail			
		Service Description Cementing - Cem Prod Casing	
Customer PO 0	Contract 0	APE 0	Rig Val Energy Rig 1
Well Jerman 20-6	State/Province Kansas	County/Parish/Block Seward	Legal Location
Field Hugoton	Customer or Authorized Representative Jim Pendergrass		

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THIS IS A CONTRACT. PLEASE READ CAREFULLY. IN CONSIDERATION OF THE PRICES AND THE SERVICES, EQUIPMENT AND/OR PRODUCTS PROVIDED TO CUSTOMER HEREUNDER, CUSTOMER AND SCHLUMBERGER AGREE TO BE BOUND BY THE TERMS AND CONDITIONS ATTACHED OR BY THE TERMS AND CONDITIONS OF A MASTER SERVICE AGREEMENT IF ONE IS IN FORCE BETWEEN CUSTOMER AND SCHLUMBERGER. THERE ARE, AMONG OTHER THINGS, INDEMNITY AND HOLD HARMLESS PROVISIONS AND WARRANTY EXCLUSIONS HEREIN.

Comments

Service Order: I authorize work to begin as set forth herein and represent that I have authority to accept and sign this order.

Signature of Customer or Authorized Representative

Jim Pendergrass
 Jim Pendergrass

Signature of Dowell Representative

Sudhar
 Sudharan Dakshindas

Thank you for calling Dowell



Cementing Service Report

Customer: **CABOT OIL & GAS PRODUCTION CORP** Job Number: **20205889**

Well: Jerman 20-6		Location (legal): Ulysses, KS		Dowell Location: Ulysses, KS		Job Start: 3/7/01	
Field: Hugoton		Formation Name/Type:		Deviation: 0		Well TVD: 2,803 ft	
County: Seward		State/Province: Kansas		BHP: 0 psi		Well BMD: 2,803 ft	
Rig Name: Val Energy Rig 1		Drilled For: Gas		Service Via: Land		Casing/Liner:	
Offshore Zone: None		Well Class: New		Well Type: Development		Depth, ft: 2803	
Drilling Fluid Type: Spud Mud		Max. Density: 9.3 lb/gal		Plastic Viscosity: 0 cp		Size, in: 4.5	
Service Line: Cementing		Job Type: Cem Prod Casing		Weight, lb/ft: 11.6		Grade: N80	
Max. Allowed Tubing Pressure: 600 psi		Max. Allowed Ann. Pressure: 0 psi		Wellhead Connection: 4 1/2"		Thread: 8RD	
Service Instructions: Cement 4 1/2 LS to surface with 270 sks lead cement and 180 sks tail		Perforations/Open Hole:		Depth, ft: 0		Size, in: 0	
		Top, ft: 0		Bottom, ft: 0		API: 0	
		No. of Shots: 0		Total Interval: 0 ft		Diameter: 0 in	
		Treat Down: Casing		Displacement: 44 bbl		Packer Type: None	
		Tubing Vol.: 0 bbl		Casing Vol.: 44.7 bbl		Annular Vol.: 116.4 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools:		Squeeze Job:	
LN Pressure: 1880 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Guide	
No. Controlbars: 10		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 2803 ft	
Cement Head Type: Single		Job Scheduled For: 3/7/01 17:30		Arrived on Location: 3/7/01 17:30		Leave Location: 3/7/01 22:30	
		Stage Tool Type: none		Stage Tool Depth: 0 ft		Tool Type: 0 ft	
		Collar Type: Autofill		Collar Depth: ft		Tail Pipe Size: 0 in	
		Squeeze Type:		Tail Pipe Depth: 0 ft		Sqr Total Vol: 0 bbl	

Time	CumVol	Density	Pressure U1	TotalFlowrate	Message			
24 hr clock	bbl	ppg	psi	bpm				
20:40	0	0	0	0	0	0	0	START ACQUISITION
20:40	0	8.33	0	0	0	0	0	RELEASED
20:40	0	0	0	0	0	0	0	Pressure Test Lines
20:40	0	8.33	0	0	0	0	0	JUL 19 2002
20:41	0	8.33	0	0	0	0	0	FROM CONFIDENTIAL
20:41	0.364	8.33	224.4	0.5	0	0	0	
20:42	0.376	8.33	2147	0	0	0	0	
20:42	0.406	8.45	50.37	0	0	0	0	
20:43	0.423	8.51	45.79	0.2	0	0	0	
20:43	0.423	8.51	45.79	0.2	0	0	0	Start Pumping Water
20:43	0.423	8.4	41.21	0	0	0	0	
20:44	0.48	8.33	87	0.12	0	0	0	
20:44	2.29	8.3	174	4.78	0	0	0	
20:45	4.61	8.3	160.3	4.5	0	0	0	
20:45	6.9	8.3	174	4.78	0	0	0	
20:46	9.32	8.29	169.4	4.76	0	0	0	Start Cement Slurry
20:46	9.32	8.29	169.4	4.76	0	0	0	(CumVol)=10.9 bbl
20:46	9.32	8.29	169.4	4.76	0	0	0	Reset Volume
20:46	0.336	9.81	183.2	4.02	0	0	0	
20:47	2.39	12.35	169.4	3.12	0	0	0	
20:47	4.5	11.26	160.3	4.42	0	0	0	

Well			Field			Service Date		Customer		Job Number
Jerman #20-6			Hugoton					IT OIL & GAS PRODUCTION		20205888
Time	CumVol	Density	Pressure U1	TopFlowrate					Message	
24 hr picks	bbt	ppg	psi	gpm						
20:48	7.07	12.08	169.4	5.31	0	0	0			
20:48	9.7	11.84	161.1	5.35	0	0	0			
20:49	12.39	11.36	141.9	5.23	0	0	0			
20:49	15.16	11.24	132.8	5.53	0	0	0			
20:50	17.93	11.25	119.	5.33	0	0	0			
20:50	20.64	11.41	164.8	5.17	0	0	0			
20:51	23.38	11.49	141.9	5.47	0	0	0			
20:51	23.38	11.49	141.9	5.47	0	0	0		scales 11.3 ppg	
20:51	26.12	11.41	105.3	5.39	0	0	0			
20:52	28.96	11.35	87.	5.59	0	0	0			
20:52	31.73	11.32	109.9	5.53	0	0	0			
20:53	34.52	11.29	109.9	5.55	0	0	0			
20:53	37.18	11.29	128.2	5.07	0	0	0			
20:54	39.82	11.32	68.68	5.23	0	0	0		RELEASED	
20:54	42.41	11.32	132.8	5.03	0	0	0		JUL 19 2002	
20:55	45.11	11.3	91.58	5.65	0	0	0			
20:55	47.87	11.39	91.58	5.45	0	0	0			
20:56	50.73	11.49	96.15	5.81	0	0	0		FROM CONFIDENTIAL	
20:56	53.63	11.48	151.1	5.85	0	0	0			
20:57	56.61	11.39	137.4	5.81	0	0	0			
20:57	59.48	11.35	132.8	5.51	0	0	0			
20:58	62.24	10.97	96.15	5.49	0	0	0			
20:58	64.98	11.65	100.7	5.39	0	0	0			
20:58	64.98	11.65	100.7	5.39	0	0	0		switch	
20:59	67.74	12.07	109.9	5.55	0	0	0			
20:59	70.49	11.69	132.8	5.55	0	0	0			
21:00	73.25	11.56	96.15	5.53	0	0	0			
21:00	76.05	11.55	82.42	5.49	0	0	0			
21:01	78.82	11.41	132.8	5.53	0	0	0			
21:01	81.64	10.97	96.15	5.69	0	0	0			
21:02	84.34	11.42	119.	5.27	0	0	0			
21:02	87.06	11.25	91.58	5.49	0	0	0			
21:03	89.8	11.42	119.	5.51	0	0	0			
21:03	92.53	11.59	132.8	5.23	0	0	0			
21:04	95.23	11.39	82.42	5.21	0	0	0			
21:04	97.9	11.23	109.9	5.55	0	0	0			
21:05	100.7	11.26	100.7	5.61	0	0	0			
21:05	103.4	11.59	96.15	5.33	0	0	0			
21:06	106.2	11.73	123.6	5.27	0	0	0			
21:06	108.8	11.59	96.15	5.47	0	0	0			
21:07	111.6	11.45	105.3	5.47	0	0	0			
21:07	114.3	11.45	132.8	5.51	0	0	0			
21:08	117.	11.45	114.5	5.49	0	0	0			
21:08	119.7	11.41	128.2	5.47	0	0	0			
21:09	122.4	11.	91.58	5.49	0	0	0			
21:09	125.2	10.48	105.3	5.41	0	0	0			
21:10	128.	10.46	96.15	5.33	0	0	0		tall	
21:10	130.7	13.45	141.9	6.07	0	0	0			
21:11	133.7	15.03	151.1	5.39	0	0	0			
21:11	136.4	14.86	155.7	5.49	0	0	0			
21:12	139.2	14.93	155.7	5.73	0	0	0			
21:12	142.1	14.92	164.8	6.03	0	0	0			
21:13	145.1	14.95	178.6	6.23	0	0	0			

Well		Field				Service Date	Customer	Job Number
Jerman #20-5		Hugoton					IT OIL & GAS PRODUCTION	20205989
Time	CumVol	Density	Pressure Ut	TotFlowrate				Message
24 hr Clock	bbl	ppg	psi	bpm				
21:13	148.	14.38	155.7	5.51	0	0	0	
21:14	151.1	14.32	155.7	5.97	0	0	0	
21:14	154.1	13.87	141.9	6.23	0	0	0	
21:15	157.2	14.16	146.5	6.17	0	0	0	
21:15	160.3	14.69	155.7	6.37	0	0	0	
21:16	163.4	14.24	146.5	6.25	0	0	0	
21:16	163.4	14.24	146.5	6.25	0	0	0	Scales 14.6
21:16	166.5	14.37	114.5	5.61	0	0	0	
21:17	169.1	14.45	68.68	4.94	0	0	0	
21:17	171.1	14.53	73.26	3.86	0	0	0	RELEASED
21:18	173.1	14.32	68.68	4.04	0	0	0	
21:18	175.3	13.93	100.7	4.72	0	0	0	
21:19	176.2	13.77	0.	0.	0	0	0	JUL 19 2002
21:19	176.9	9.36	196.9	4.98	0	0	0	
21:20	183.5	8.77	210.6	7.41	0	0	0	FROM CONFIDENTIAL
21:20	187.1	8.43	219.8	5.67	0	0	0	
21:21	190.5	8.13	247.3	6.09	0	0	0	
21:21	192.2	8.33	4.58	0.	0	0	0	
21:22	192.8	8.39	64.1	4.8	0	0	0	
21:22	195.4	8.41	54.95	5.23	0	0	0	
21:23	198.1	8.43	59.52	5.21	0	0	0	
21:23	200.8	8.39	54.95	5.63	0	0	0	
21:24	203.7	8.42	54.95	5.69	0	0	0	
21:24	206.5	8.42	59.52	4.88	0	0	0	
21:25	206.5	8.42	59.52	4.88	0	0	0	On disp
21:25	206.5	8.42	59.52	4.88	0	0	0	(CumVol)=207.9 bbl
21:25	206.5	8.42	59.52	4.88	0	0	0	Reset Volume
21:25	206.5	8.42	59.52	4.88	0	0	0	15 bbis gone
21:25	0.297	8.44	59.52	3.56	0	0	0	
21:25	0.297	8.44	59.52	3.56	0	0	0	Circ cmt
21:25	1.7	8.44	68.68	2.36	0	0	0	
21:26	3.44	8.44	146.5	4.06	0	0	0	
21:26	5.48	8.44	201.5	4.56	0	0	0	
21:27	7.91	8.44	261.	4.92	0	0	0	
21:27	10.33	8.44	297.6	4.74	0	0	0	
21:28	12.69	8.44	343.4	4.64	0	0	0	
21:28	14.97	8.45	370.9	4.54	0	0	0	
21:29	17.06	8.44	398.4	4.06	0	0	0	
21:29	19.08	8.44	439.6	4.	0	0	0	
21:30	21.05	8.43	457.9	3.88	0	0	0	
21:30	22.97	8.43	535.7	3.76	0	0	0	
21:31	24.15	8.42	480.8	2.	0	0	0	
21:31	25.15	8.44	503.7	1.98	0	0	0	
21:32	26.12	8.43	522.	1.92	0	0	0	
21:32	27.09	8.43	531.1	1.92	0	0	0	
21:33	28.04	8.43	567.8	1.88	0	0	0	
21:33	28.62	8.42	567.8	1.4	0	0	0	
21:34	28.96	8.42	467.	0.	0	0	0	
21:34	29.2	8.42	1012	0.	0	0	0	
21:35	29.2	8.42	1012	0.	0	0	0	bump plug
21:35	29.2	8.42	0.	0.	0	0	0	
21:35	29.2	8.42	0.	0.	0	0	0	
21:36	29.2	8.42	0.	0.	0	0	0	
21:36	29.2	8.42	0.	0.	0	0	0	

Well Jerman #20-6		Field Hugoton			Service Data		Customer IT OIL & GAS PRODUCTION		Job Number 20205689	
Time 24 Hr Clock	Cum Vol bbl	Density ppg	Pressure U/I psi	Total Flow Rate bpm				Message		
21:36	29.2	8.42	0.	0.	0	0	0	Circ 34bbls cmf		
21:37	29.2	8.42	0.	0.	0	0	0	Plug down 2137		
Post Job Summary										
Average Pump Rates, bpm					Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2		
3	0	0	6		176	0	10	0		
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density		
1200	1200	300	1000	0		0 bbl		0 lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?		Volume	34 bbl		
0 %	175 bbl		46 bbl	65 °F	<input type="checkbox"/> Washed Thru Parts To		0 ft			
Customer or Authorized Representative Jim Pendergrass				Dowell Supervisor Shubhanan Dakshindas		<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		

RELEASED

JUL 19 2002

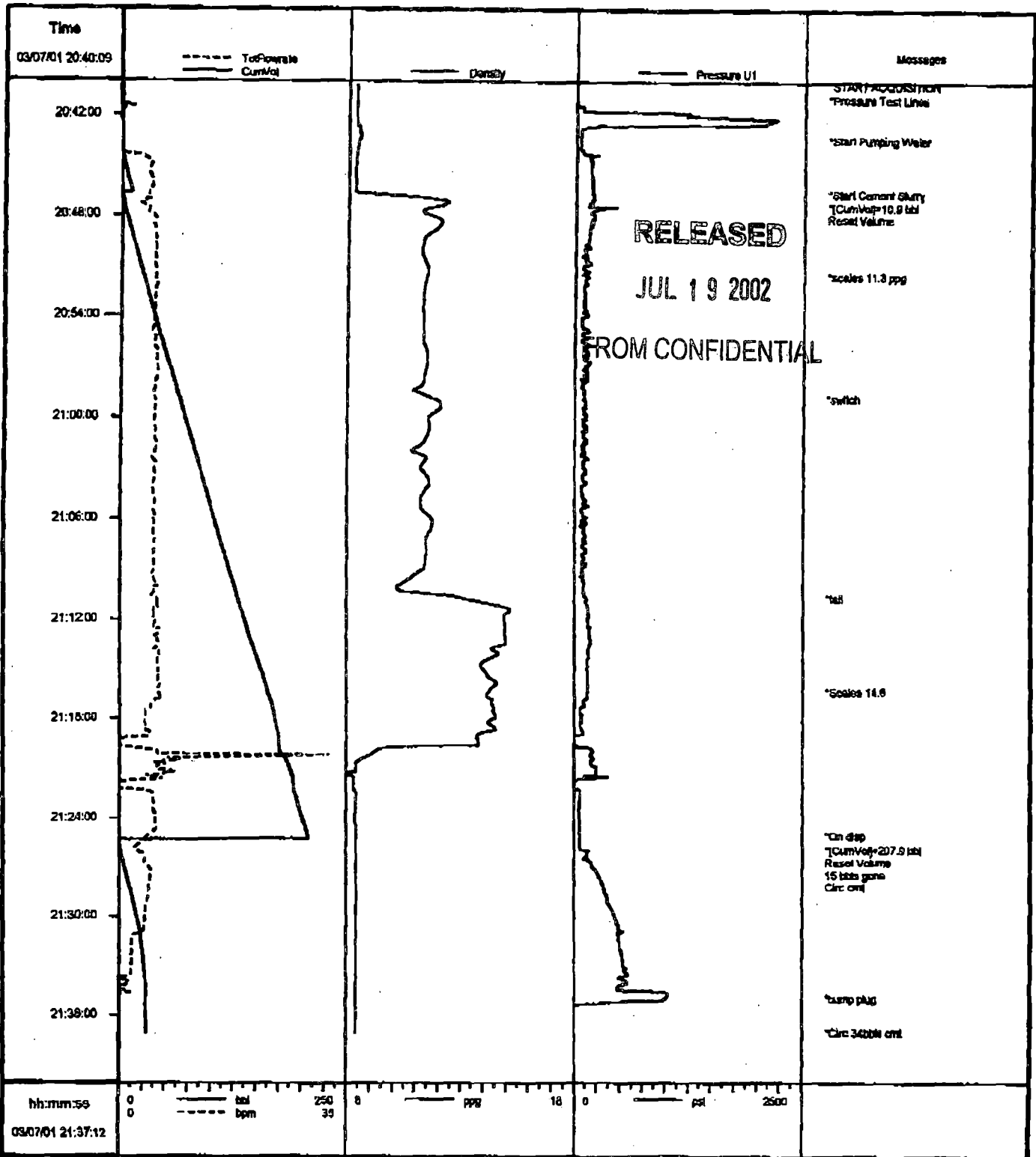
FROM CONFIDENTIAL



Cementing Job Report

PRISM V2.23

Well Jerman 20-6	Client Cabot Oil and Gas
Field Hugoton	SIR No. 20205889
Country USA	Job Date 3/7/2001 8:40:09 PM



Job: cabot

03/07/2001 21:41:54

* Mark of Schlumberger